

Special Issue

Advances in Stability and Adaptability on Crop Production

Message from the Guest Editors

Crop yield is a polygenic trait controlled by several genes. One of the characteristics of polygenic traits is the relevant phenotype is strongly influenced by the environment, and significant changes to phenotype occur with minimal changes in the environment. Due to genotype–environment interactions, it is difficult to recommend and introduce superior genotypes in a wide range of environments. Any factor is part of the plant's ecological conditions and is associated with the genotype–environment interaction, and thus has the ability to change the yield. Breeders need to select genotypes with better yield stability under changing climatic conditions. Better genotypes can be obtained through modification of these stable genotypes. The influence of the genotype–environment interaction means that it is not suitable for to engage in selection on a genotype based on its performance in one environment only. This Special Issue aims to discuss various yield prediction methods, as well as the stability and adaptability of crop production. Studies focused on applications regarding genotype–environment interaction, sustainable agriculture, and yield stability.

Guest Editors

Dr. Seyed Mohammad Nasir Mousavi

Dr. Brigitta Tóth

Prof. Dr. János Nagy

Deadline for manuscript submissions

closed (15 December 2023)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/134738

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)